

Abstract

A terminal structure is provided between an end of a multiphase superconducting cable and a room temperature side, the multiphase superconducting cable having a plurality of superconducting layers for flowing currents of different phases, the superconducting layers being concentrically disposed and separated by conductor-insulation layers. The terminal structure includes a refrigerant tank filled with a refrigerant for cooling the ends of the superconducting layers; leads electrically connected to the ends of the individual superconducting layers; and an insulating member disposed around the peripheries of the leads, the insulating member sealing the refrigerant in the refrigerant tank.